

**IN THE CLAIMS:**

1. (Currently Amended) A process for producing polyurethane foams comprising reacting isocyanates with compounds which are reactive toward isocyanates in the presence of blowing agents and in the presence or absence of catalysts, additives and/or auxiliaries, wherein the reaction is carried out in the presence of at least one of the following compounds (i): ~~an  $\alpha,\beta$ -unsaturated carboxylic acid, an  $\alpha,\beta$ -unsaturated carboxylic acid derivative, an  $\alpha,\beta$ -unsaturated ketone and/or an  $\alpha,\beta$ -unsaturated aldehyde~~ acrylic acid, crotonic acid, isocrotonic acid, sorbic acid, fumaric acid, cinnamic acid, hydroxyethyl acrylate, 3-(acryloyloxy)-2-hydroxypropyl methacrylate, benzyl cinnamate, trans-3-nonen-2-one, benzalacetone, dibenzalacetone, benzalacetophenone, 1-methylbenzalacetophenone, crotonaldehyde, cinnamaldehyde, methyl vinyl ketone and an  $\alpha,\beta$ -unsaturated polyester diol prepared by polycondensation of maleic acid, fumaric acid, methacrylic acid or acrylic acid with oligomeric diols having a molecular weight factor per double bond of from 150 to 3000, a functionality of from 2 to 6, a hydroxyl number of from 20 to 800 and an acid number of from 0 to 15.
2. Please cancel Claim 2 without prejudice.
3. Please cancel Claim 3 without prejudice.
4. (Previously Amended) A process as claimed in claim 1, wherein compound (i) is used in an amount of from 0.01 to 20% by weight, based on the weight of the polyurethane foam.
5. (Previously Amended) A flexible polyurethane foam obtainable in accordance with a process as claimed in claim 1.

6. (Previously Amended) A polyurethane foam comprising products of the reaction of primary and/or secondary amines with  $\alpha,\beta$ -unsaturated carboxylic acids,  $\alpha,\beta$ -unsaturated carboxylic acid derivatives,  $\alpha,\beta$ -unsaturated ketones and/or  $\alpha,\beta$ -unsaturated aldehydes.